| Ref<br>#   | Hits  | Search Query   | DBs                                  | Default<br>Operator | Plurals | Time Stamp       |
|------------|-------|--|--------------------------------------|---------------------|---------|------------------|
| L7         | 7     | contact with (gaas near3 rough\$4)                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR                  | ON      | 2005/06/28 08:49 |
| L8         | . 84  | (gaas near3 rough\$4)                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR                  | ON      | 2005/06/28 09:09 |
| L9         | 77    | L8 not L7  | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR                  | ON      | 2005/06/28 08:50 |
| L10        | 154   | (gaas with (surface near3 rough\$4))                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR                  | ON      | 2005/06/28 09:09 |
| S1         | 11767 | 372/43-46.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR                  | ON      | 2005/06/27 09:13 |
| S2         | 657   | S1 and (vcsel or "vertical cavity surface emitting layer") | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR                  | ON      | 2005/06/27 09:14 |
| S3         | 190   | S2 and (current near3 confin\$3)                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR                  | ON      | 2005/06/27 09:19 |
| <b>S4</b>  | 12    | S2 and (surface near3 roughness)                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR                  | ON      | 2005/06/27 09:24 |
| S5         | 20    | S2 and (roughness)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR                  | ON      | 2005/06/27 09:24 |
| S6         | 8     | S5 not S4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR                  | ON      | 2005/06/27 11:39 |
| <b>S</b> 7 | 1     | ("6529541").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR                  | OFF     | 2005/06/27 11:49 |
| S8         | 495   | "372".clas. and (electrode with plasma)                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR                  | ON      | 2005/06/27 11:58 |

| S9  | 12  | S8 and ("lift-off" or "lift off")                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR   | ON  | 2005/06/27 12:49 |
|-----|-----|---|--------------------------------------|------|-----|------------------|
| S10 | 589 | "372".clas. and (surface near3 rough\$4)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR   | ON  | 2005/06/27 15:55 |
| S11 | 19  | "372".clas. and ((surface near3 rough\$4) with electrode) | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR   | ON  | 2005/06/27 12:52 |
| S12 | 0   | (2002/0024980).CCLS.                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR . | OFF | 2005/06/27 13:53 |
| S13 | 0   | (2002/0026980).CCLS.                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR   | OFF | 2005/06/27 13:53 |
| S14 | 1   | ("6519271").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR   | OFF | 2005/06/27 13:53 |
| S15 | 1   | ("20020024980").PN.                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR   | OFF | 2005/06/27 13:53 |
| S16 | 24  | "372".clas. and (contact near3 rough\$4)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR   | ON  | 2005/06/27 16:01 |
| S17 | 83  | "372".clas. and (contact with rough\$4)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR   | ON  | 2005/06/27 16:41 |
| S18 | 59  | S17 not S16   | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR   | ON  | 2005/06/27 16:01 |
| S19 | 103 | "372".clas. and (contact with smooth\$4)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR   | ON  | 2005/06/27 16:38 |
| S20 | 40  | "372".clas. and (gaas with rough\$4)                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO | OR   | ON  | 2005/06/27 16:42 |
| S21 | 2   | ("20030122134"   "5762705").PN.                           | US-PGPUB;<br>USPAT;<br>USOCR         | OR   | ON  | 2005/06/27 16:43 |